	Application No.	Applicant(s)
Notice of Allowability	10/535,249	HOUDA ET AL.
	Examiner	Art Unit
	Bruce F. Bell	1745
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is sufficiently. This application is sufficiently application of the communication of the communic	h the correspondence address this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to the application as filed on May 18, 2005.		
2. The allowed claim(s) is/are <u>1-6</u> .		
 3. Acknowledgment is made of a claim for foreign priority unerstanding a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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	•	
Attachment(s)	•	
1. ☑ Notice of References Cited (PTO-892)	5. Notice of Info	ormal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Su	mmary (PTO-413),
3. ⊠ Information Disclosure Statements (PTO/SB/08),	Paper No.// 7. ☐ Examiner's A	Mail DateAmendment/Comment
Paper No./Mail Date <u>5/18/05</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	•	Statement of Reasons for Allowance
of Biological Material	9.	,
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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach and/or suggest a bipolar, zero-gap type electrolytic cell having an anode in an anode chamber wherein the anode base has an open area percentage of 25 to 75% after being applied with a catalyst, having a maximum height difference of 5 to 50 µm between irregularities on a surface thereof and a thickness of 0.7 to 2.0 mm and a cathode in a cathode chamber arranged back to back with the anode chamber, wherein the cathode has at least two layers stacked in the chamber and the layers include a conductive cushion mat and a hydrogen generating cathode which layer is adjacent to the cushion mat layer and arranged in an area for contact with the anodic ion exchange membrane.

The prior art of record shows that the cushion mat and hydrogen cathode layers forming the cathode in the cathode chamber is known and that the anode materials are known, but the prior art of record does not teach that the combination of components of the anode where the open area percentage is 25 to 75% and the maximum height difference of 5 to 50 µm between irregularities on a surface thereof and a thickness of 0.7 to 2.0 mm is pertinent to the voltage change and the average current efficiency of the cell as shown by way of applicants specification in Tables 1-4 where the instant invention and comparative examples are shown.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce F. Bell whose telephone number is 571-272-1296. The examiner can normally be reached on Monday-Friday 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BFB

August 16, 2007

Succ Sell
Bruce F. Bell
Primary Examiner

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